

ABSTRACT

An apparatus capable of establishing different video sample stream processing channels between a plurality of video sample stream inputs and a video sample stream output is described. The apparatus includes a multi-state routing network comprising wiring to route a video sample stream. The multi-state routing network comprises outputs that are coupled to the inputs of a plurality of video sample stream channel processing segments, where, each channel processing segment comprises at least one signal processing block. The multi-state routing network also comprises inputs that are coupled to the outputs of the video sample stream channel processing segments. The multi-state routing network also comprises the plurality of video sample stream inputs the video sample stream output.